

**METHOD AND APPARATUS FOR WIRELESSLY COUPLING A SOURCE SIGNAL  
TO A RADIO FREQUENCY RECEIVER**

Abstract

A digital audio system (20) can include a receiver (24) coupled to an RF modulator (30), a source signal modulated by the RF modulator to provide a modulated signal, and an external antenna (32) for receiving the source signal and for transmitting the modulated signal. The receiver can be a satellite radio receiver or any digital source such as an FM radio or MP3 player for example. The system can further include a coupling network (26) coupled between the receiver and the external antenna and between the RF modulator and the external antenna. The system can further include an internal antenna (34) coupled to the RF modulator for radiating the modulated signal via a second path. The digital audio system can be a satellite digital audio radio system for a vehicle 31 with the external antenna placed outside the vehicle and the internal antenna placed inside the vehicle.